

- Make a new addition problem by adding and subtracting 2.
 Solve the new addition problem.

$$\begin{array}{r} 18 + 15 \\ = \underline{20} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 14 + 28 \\ = \underline{\quad} + \underline{30} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 37 + 48 \\ = \underline{\quad} + \underline{50} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 68 + 24 \\ = \underline{70} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 42 + 54 \\ = \underline{40} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 72 + 17 \\ = \underline{70} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 56 + 32 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

$$\begin{array}{r} 28 + 45 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

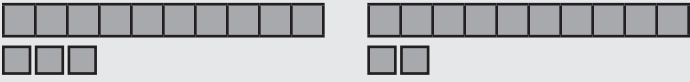
$$\begin{array}{r} 22 + 35 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

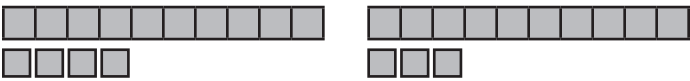
$$\begin{array}{r} 43 + 48 \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

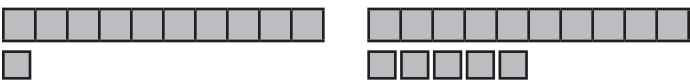
Using Tens and Ones to Add

How many tens and ones altogether?


Add.


_____ tens + _____ ones
 $13 + 12 = \underline{25}$



_____ tens + _____ ones
 $14 + 13 = \underline{\quad}$


_____ tens + _____ ones
 $11 + 15 = \underline{\quad}$

Now draw the blocks and add.


_____ tens + _____ ones
 $12 + 12 = \underline{\quad}$

Make your own problem.


_____ tens + _____ ones
 $\underline{\quad} + \underline{\quad} = \underline{\quad}$

Add by separating the tens and ones.

$$\begin{array}{r} 23 \\ + 34 \\ \hline \end{array} = \begin{array}{r} 20 + 3 \\ 30 + 4 \\ \hline 50 + 7 \end{array}$$

57 ←

$$\begin{array}{r} 34 \\ + 15 \\ \hline \end{array} = \begin{array}{r} 30 + 4 \\ 10 + 5 \\ \hline 40 + 9 \end{array}$$

←

$$\begin{array}{r} 27 \\ + 22 \\ \hline \end{array} = \begin{array}{r} 20 + \square \\ 20 + \square \\ \hline 40 + \square \end{array}$$

←

$$\begin{array}{r} 35 \\ + 42 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 15 \\ + 23 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 26 \\ + 13 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 34 \\ + 54 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 26 \\ + 33 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 22 \\ 14 \\ + 21 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

$$\begin{array}{r} 11 \\ 22 \\ + 33 \\ \hline \end{array} = \begin{array}{r} \square + \square \\ \square + \square \\ \square + \square \\ \hline \square + \square \end{array}$$

←

Add by using a tens and ones chart.

35
+ 32
67

tens	ones
3	5
3	2
6	7

24
+ 41
□

tens	ones
2	4
4	1

46
+ 31
□

tens	ones

43
+ 23
□

tens	ones

27
+ 21
+ 51
□

tens	ones

31
+ 42
+ 14
□

tens	ones

tens	ones
3	2
+ 2	7

tens	ones
4	8
+ 3	1

tens	ones
5	5
+ 2	3

tens	ones
2	2
+ 1	3

37
+ 22

63
+ 16

25
+ 34

31
+ 62

54
+ 34

23
+ 43

Many Ways to Write a Number

Write 53 in many ways.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

5 tens + 3 ones

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

_____ tens + _____ ones

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

_____ tens + _____ ones

Write the number in many ways.

24

tens	ones
2	4
1	14
0	24

27

tens	ones

26

tens	ones

37

tens	ones

38

tens	ones

31

tens	ones

50

tens	ones

56

tens	ones

52

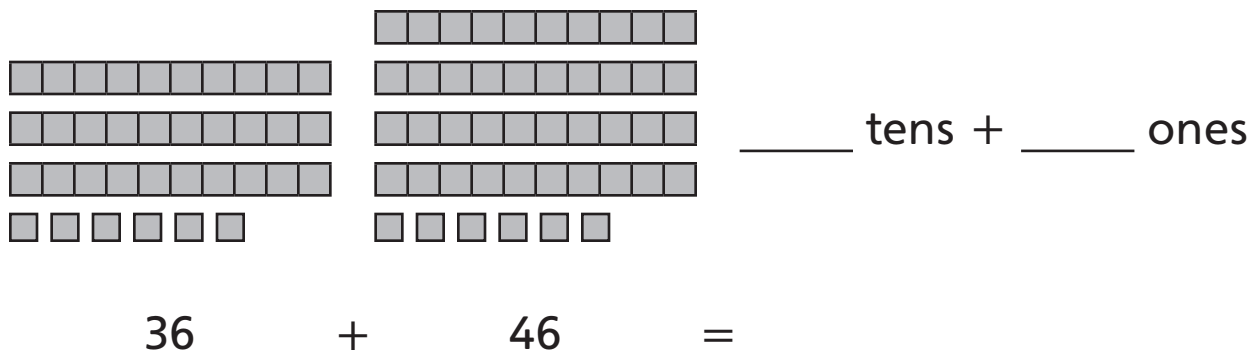
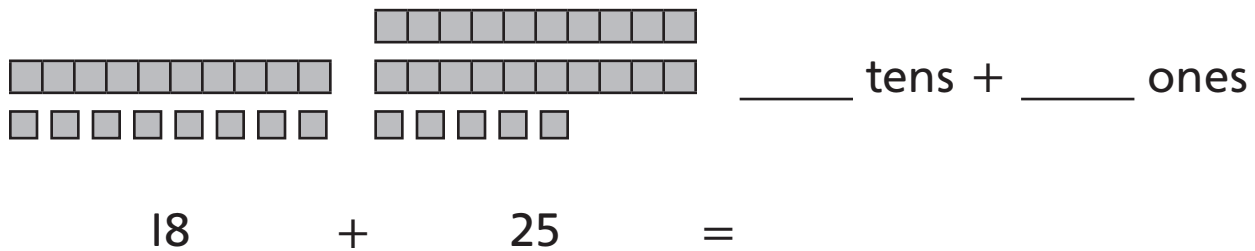
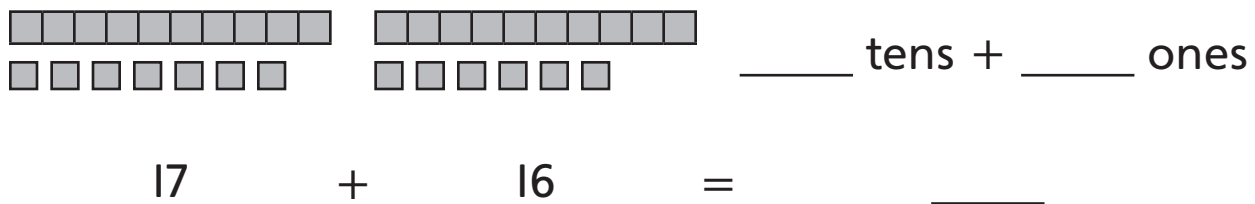
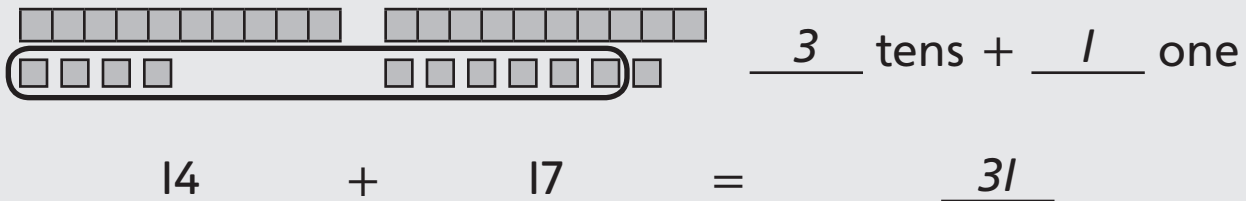
tens	ones

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED

Group 10 ones blocks together.

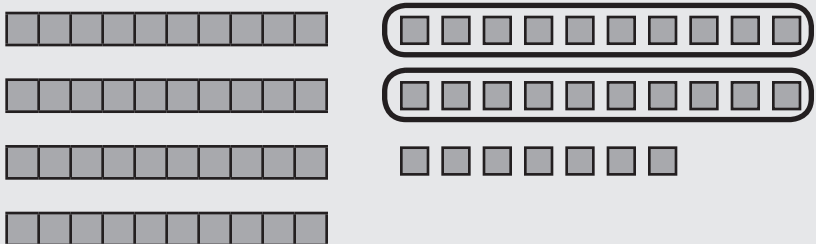
How many tens and ones?

Add.

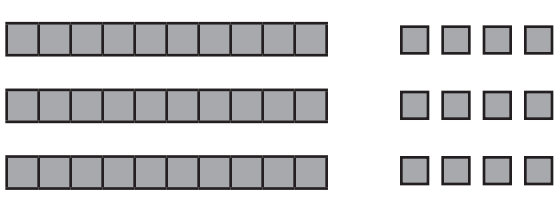


- Trade groups of 10 ones for tens.
- Regroup in the next row.

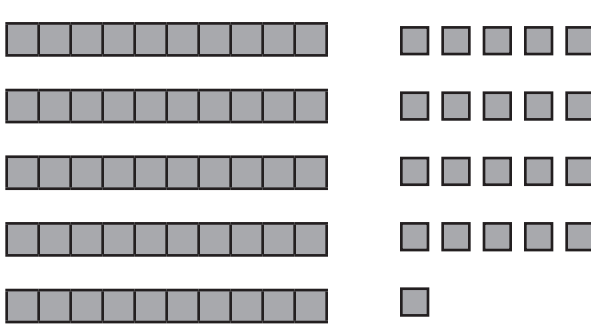
tens	ones
4	27
6	7



tens	ones
3	12



tens	ones
5	21



tens	ones
3	15

tens	ones
6	19

tens	ones
4	28

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED

- Add the tens and ones.
- Regroup in the next row.
- Write the answer.

tens	ones
1	6
5	5
<hr/>	
6	11
7	1

16
+ 55
<hr/>
71

tens	ones
1	2
2	9
<hr/>	

12
+ 29
<hr/>

tens	ones
2	5
3	8
<hr/>	

25
+ 38
<hr/>

tens	ones
5	7
2	6
<hr/>	

57
+ 26
<hr/>

tens	ones
2	8
2	6
<hr/>	

28
+ 26
<hr/>

tens	ones
2	3
5	2
1	6
<hr/>	

23
52
+ 16
<hr/>

The Standard Algorithm for Addition

- Add the ones.
- Write the tens digit in the tens column.
- Write the ones digit in the ones column.

$5 + 9 = \boxed{1} \boxed{4}$

tens ones

/	
1	5
+	2 9
	4

$3 + 8 = \boxed{1} \boxed{1}$

tens ones

2	3
+	3 8

$6 + 4 = \boxed{1} \boxed{0}$

tens ones

5	6
+	3 4

$7 + 5 = \boxed{} \boxed{}$

tens ones

3	7
+	2 5

$6 + 9 = \boxed{} \boxed{}$

tens ones

1	6
+	4 9

$_ + _ = \boxed{} \boxed{}$

tens ones

2	7
+	3 8

1	4
+	3 8

4	7
+	2 3

1	5
+	3 5

COPYRIGHT © 2017 JUMP MATH. NOT TO BE COPIED

- Add the ones first.
- Then add the tens to find the total.

$$\begin{array}{r}
 \square \\
 1 \ 5 \\
 + 2 \ 9 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 3 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 5 \ 6 \\
 + 3 \ 4 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 9 \\
 + 1 \ 1 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 3 \ 7 \\
 + 2 \ 5 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 6 \\
 + 4 \ 9 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 7 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 5 \\
 + 1 \ 9 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 4 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 4 \ 7 \\
 + 2 \ 3 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \ 5 \\
 + 3 \ 5 \\
 \hline
 \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \ 8 \\
 + 3 \ 8 \\
 \hline
 \square \ \square
 \end{array}$$

Add. Regroup when you need to.

$$\begin{array}{r} \boxed{1} \\ 1 \ 9 \\ + 2 \ 6 \\ \hline \boxed{4} \ \boxed{5} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 2 \ 5 \\ + 3 \ 3 \\ \hline \boxed{5} \ \boxed{8} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 3 \ 7 \\ + 2 \ 5 \\ \hline \boxed{} \ \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 2 \ 3 \\ + 4 \ 6 \\ \hline \boxed{} \ \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 2 \ 9 \\ + \ 4 \\ \hline \boxed{} \ \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 1 \ 3 \\ + 2 \ 2 \\ \hline \boxed{} \ \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 4 \ 7 \\ + \ 3 \\ \hline \boxed{} \ \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 8 \ 6 \\ + \ 1 \\ \hline \boxed{} \ \boxed{} \end{array}$$

Liz added the tens before the ones.

Circle the answers she got wrong.

$$\begin{array}{r} \boxed{} \\ 1 \ 1 \\ + 5 \ 8 \\ \hline \boxed{6} \ \boxed{9} \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 1 \ 7 \\ + 2 \ 7 \\ \hline \boxed{3} \ \boxed{4} \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 2 \ 6 \\ + 2 \ 6 \\ \hline \boxed{4} \ \boxed{2} \end{array}$$

$$\begin{array}{r} \boxed{} \\ 4 \ 3 \\ + 2 \ 5 \\ \hline \boxed{6} \ \boxed{8} \end{array}$$

Add.

29 + 14

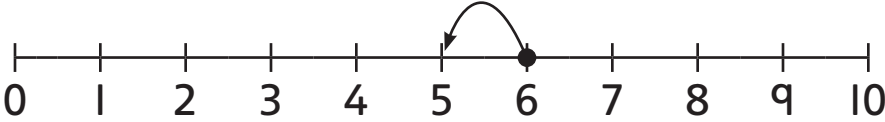
37 + 46


48 + 23


55 + 39

Subtraction Strategies

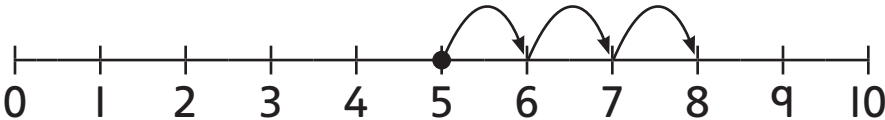
Count backwards to subtract.


$6 - 1 = \underline{\quad}$ 

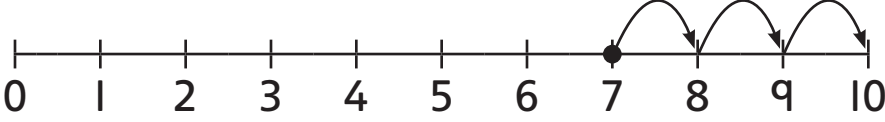
$7 - 2 = \underline{\quad}$ 

$8 - 3 = \underline{\quad}$ 


Count forwards to subtract.


$8 - 5 = \underline{\quad}$ 


$9 - 6 = \underline{\quad}$ 

$10 - 7 = \underline{\quad}$ 

Take away the coloured circles to subtract.

$10 - 2 = \underline{\quad}$ 

$11 - 3 = \underline{\quad}$ 

$12 - 4 = \underline{\quad}$ 

Write 4 more subtraction sentences with the same answer.

$\underline{\hspace{2cm}}$ $10 - 6 = 4$ $\underline{\hspace{2cm}}$
 $\underline{\hspace{2cm}}$ $\underline{\hspace{2cm}}$ $\underline{\hspace{2cm}}$

Circle the easiest problem to solve.

$17 - 9$

$18 - 10$

$19 - 11$

$20 - 12$

$11 - 8$

$12 - 9$

$13 - 10$

$14 - 11$

$18 - 13$

$17 - 12$

$16 - 11$

$15 - 10$

Explain your choices. _____

Make an easier problem with the same answer.

Subtract.

$13 - 8 = \boxed{15} - 10 = \underline{5}$

$13 - 9 = \square - 10 = \underline{\quad}$

$16 - 9 = \square - 10 = \underline{\quad}$

$14 - 8 = \square - 10 = \underline{\quad}$

$17 - 8 = \square - 10 = \underline{\quad}$

$15 - 9 = \square - 10 = \underline{\quad}$

$12 - 9 = \square - 10 = \underline{\quad}$

Bonus

 $24 - 18 = \square - 20 = \underline{\quad}$

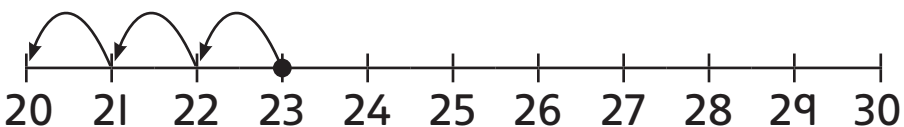
COPYRIGHT © 2017 JUMP MATH. NOT TO BE COPIED

Subtract.

$13 - 3 = \underline{\quad}$



$23 - 3 = \underline{\quad}$



$33 - 3 = \underline{\quad}$



$43 - 3 = \underline{\quad}$

$73 - 3 = \underline{\quad}$

$63 - 3 = \underline{\quad}$

$82 - 2 = \underline{\quad}$

$67 - 7 = \underline{\quad}$

$54 - 4 = \underline{\quad}$

$91 - 1 = \underline{\quad}$

$85 - 5 = \underline{\quad}$

$76 - 6 = \underline{\quad}$

$89 - 9 = \underline{\quad}$

$50 - 0 = \underline{\quad}$

$28 - 8 = \underline{\quad}$

$74 - 4 = \underline{\quad}$

$68 - 8 = \underline{\quad}$

$41 - 1 = \underline{\quad}$

Write **more** or **less**.

Subtract.

$74 - 3$ is more than $73 - 3$

$73 - 3 = \underline{70}$ so $74 - 3 = \underline{71}$

$84 - 5$ is less than $85 - 5$

$85 - 5 = \underline{\quad}$ so $84 - 5 = \underline{\quad}$

$75 - 6$ is than $76 - 6$

$76 - 6 = \underline{\quad}$ so $75 - 6 = \underline{\quad}$

$57 - 6$ is than $56 - 6$

$56 - 6 = \underline{\quad}$ so $57 - 6 = \underline{\quad}$

$48 - 9$ is than $49 - 9$






$49 - 9 = \underline{\quad}$ so $48 - 9 = \underline{\quad}$

Solve $78 - 9$ in two ways.

Bonus: Solve $78 - 9$ in a third way.

More Subtraction Strategies

Count on to subtract.









				
36	37	38	39	40
$36 + \underline{4} = 40$		so	$40 - 36 = \underline{4}$	

$7 + \underline{\quad} = 10$ so $10 - 7 = \underline{\quad}$
 $17 + \underline{\quad} = 20$ so $20 - 17 = \underline{\quad}$
 $27 + \underline{\quad} = 30$ so $30 - 27 = \underline{\quad}$

$10 - 8 = \underline{\quad}$
 $20 - 18 = \underline{\quad}$
 $30 - 28 = \underline{\quad}$

$10 - 5 = \underline{\quad}$
 $20 - 15 = \underline{\quad}$
 $30 - 25 = \underline{\quad}$

$10 - 9 = \underline{\quad}$
 $40 - 39 = \underline{\quad}$
 $90 - 89 = \underline{\quad}$

							
4	5	6	7	40	50	60	70
$7 - 4 = 3$				so	$70 - 40 = 3 \text{ tens} = 30$		

$8 - 3 = \underline{5}$ so $80 - 30 = \underline{50}$

$10 - 5 = \underline{\quad}$ so $100 - 50 = \underline{\quad}$

$80 - 50 = \underline{\quad}$

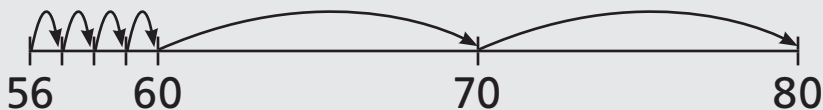
$70 - 30 = \underline{\quad}$

$90 - 40 = \underline{\quad}$

COPYRIGHT © 2017 JUMP MATH. NOT TO BE COPIED

Subtract by adding.

What is $80 - 56$?



$80 - 56$ is

$$\boxed{4} + \boxed{20} = \boxed{24}$$

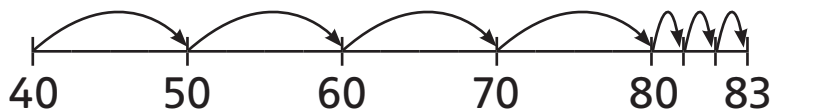
What is $90 - 72$?



$90 - 72$ is

$$\boxed{} + \boxed{} = \boxed{}$$

What is $83 - 40$?



$83 - 40$ is

$$\boxed{} + \boxed{} = \boxed{}$$

What is $90 - 57$?



$$90 - 57 \text{ is } \boxed{} + \boxed{} = \boxed{}$$

What is $75 - 40$?



$$75 - 40 \text{ is } \boxed{} + \boxed{} = \boxed{}$$

What is $30 - 3$?



$$30 - 3 \text{ is } \boxed{} + \boxed{} = \boxed{}$$

What is $64 - 20$?



$$64 - 20 \text{ is } \boxed{} + \boxed{} = \boxed{}$$

What is $77 - 40$?



$$77 - 40 \text{ is } \boxed{} + \boxed{} = \boxed{}$$

What is $80 - 16$?



$$80 - 16 \text{ is } \boxed{} + \boxed{} = \boxed{}$$

Subtract by using tens and adding.

$15 - 7 = \boxed{8}$

7 10 15

$\boxed{3} + \boxed{5} = \boxed{8}$

$25 - 17 = \boxed{}$

17 20 25

$\boxed{} + \boxed{} = \boxed{}$

$35 - 27 = \boxed{}$

27 30 35

$\boxed{} + \boxed{} = \boxed{}$

$42 - 36 = \boxed{}$

36 40 42

$\boxed{} + \boxed{} = \boxed{}$

$83 - 56 = \boxed{27}$

56 60 80 83

$\boxed{4} + \boxed{20} + \boxed{3} = \boxed{27}$

$92 - 49 = \boxed{}$

49 50 90 92

$\boxed{} + \boxed{} + \boxed{} = \boxed{}$

$78 - 29 = \boxed{}$

29 30 70 78

$\boxed{} + \boxed{} + \boxed{} = \boxed{}$

$95 - 57 = \boxed{}$

57 60 90 95

$\boxed{} + \boxed{} + \boxed{} = \boxed{}$

Subtracting Using Tens and Ones

- Use ones blocks and tens blocks to subtract.
 - Colour blocks to show the second number.
- What number do the **white** blocks show?

$$\begin{array}{r} 47 \\ - 23 \\ \hline \boxed{24} \end{array}$$

$$\begin{array}{r} 34 \\ - 13 \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} 48 \\ - 31 \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} 45 \\ - 20 \\ \hline \boxed{} \end{array}$$

Cross out the correct number of 10s and 1s.

Subtract.

$$\begin{array}{r} 87 \\ - 63 \\ \hline \boxed{24} \end{array}$$

$$\begin{array}{r} \cancel{10} + \cancel{10} + \cancel{10} + \cancel{10} + \cancel{10} + \cancel{10} + 10 + 10 \\ + \cancel{1} + \cancel{1} + \cancel{1} + 1 + 1 + 1 + 1 \end{array} \Big) 87$$

Cross out 6 tens and 3 ones. How much is left?

$$\begin{array}{r} 96 \\ - 34 \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 \\ + 1 + 1 + 1 + 1 + 1 + 1 \end{array} \Big) 96$$

Cross out 3 tens and 4 ones. How much is left?

$$\begin{array}{r} 57 \\ - 31 \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} 10 + 10 + 10 + 10 + 10 \\ + 1 + 1 + 1 + 1 + 1 + 1 + 1 \end{array} \Big) 57$$

Cross out ___ tens and ___ one. How much is left?

$$\begin{array}{r} 28 \\ - 11 \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} 10 + 10 \\ + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 \end{array} \Big) 28$$

_____. How much is left?

$$\begin{array}{r} 65 \\ - 34 \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} 10 + 10 + 10 + 10 + 10 + 10 \\ + 1 + 1 + 1 + 1 + 1 \end{array}$$

$$\begin{array}{r} 34 \\ + \boxed{} \\ \hline \boxed{} \end{array}$$

Check by adding your answer. Do you get 65?

Subtract.

	8	5
-	4	2
	4	3

8 tens 5 ones
- 4 tens 2 ones
4 tens 3 ones

	6	7
-	2	5

6 tens 7 ones
- 2 tens 5 ones
□ tens □ ones

	9	7
-	2	1

9 tens 7 ones
- 2 tens 1 one
□ tens □ ones

	6	3
-	4	2

6 tens 3 ones
- 4 tens 2 ones
□ tens □ ones

Subtract, then check your answer by adding.

	6	9
-	5	3

tens ones

	5	3
+		

check

	8	5
-	3	1

tens ones

	3	1
+		

check

	7	8
-	3	7

tens ones

+		

check

	6	9
-	2	4

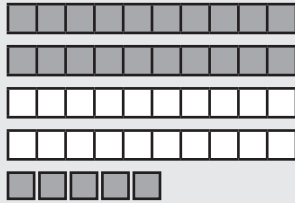
tens ones

+		

check

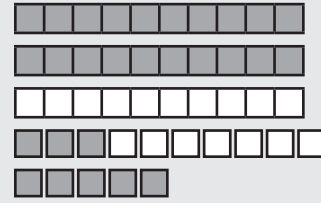
Regrouping for Subtraction

To find $45 - 28$,
Lela draws tens and
ones blocks for 45.
She tries to colour 28.

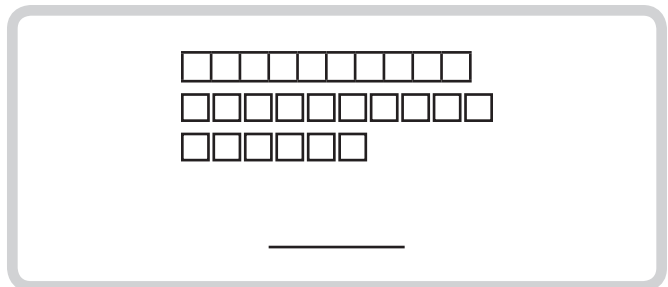
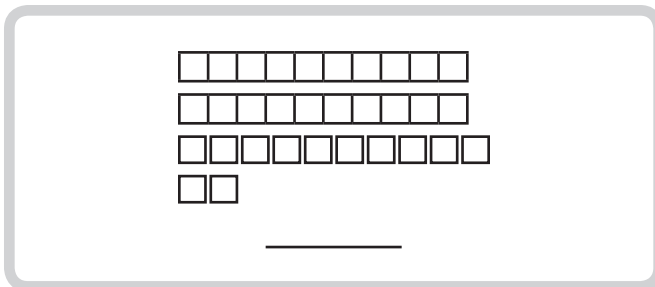


$45 - 28 = 17$
There are 17 left.

Lela can only colour 25,
so she trades a tens
block for 10 ones blocks.
Now she can colour 28.



What number is shown?



Write the subtraction sentence for the model.

